



## System and Method for Storing Data

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### ABSTRACT OF THE DISCLOSURE

This invention provides a method for operating a data storage system in which the performance of the data storage system is maintained at or above a specified level during use of the data storage system. The data storage system is provided with a performance monitor for monitoring operational status of the data storage system and for receiving input data to define the required data storage system performance. The system sets performance requirement parameters for various elements such like device busy rate, data transfer speed or other parameters that define storage performance. As the performance monitor monitors actual storage performance variables, if it detects a drop in the storage performance in a specific logical device or the entire data storage system, data is moved within the storage system so that the load is distributed appropriately to bring actual performance in line with the performance specification.